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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/483,186 -	01/14/2000	Francisco Corella	10001559-1	8070
22879 75	90 05/19/2004		EXAM	INER
	ACKARD COMPANY	OAD	BROWN, CHR	LISTOPHER J
	00, 3404 E. HARMONY R		ART UNIT	PAPER NUMBER

INTELLECTUAL PROPERTY ADMINISTRATION FORT COLLINS, CO 80527-2400

2134

DATE MAILED: 05/19/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)				
Office Action Common to	09/483,186	CORELLA, FRANCISCO				
Office Action Summary	Examiner	Art Unit				
	Christopher J Brown	2134				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 3/5/0	<u>4</u> .					
, <del></del>	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine 10)☒ The drawing(s) filed on 14 January 2000 is/are:  Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correct  11)☐ The oath or declaration is objected to by the Ex	a) $\square$ accepted or b) $\square$ objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the priority documents</li> <li>* See the attached detailed Office action for a list</li> </ul>	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 10.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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### **DETAILED ACTION**

## Response to Amendment

## Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-24 are rejected, The meaning of every term used in any of the claims should be apparent from the descriptive portion of the specification with clear disclosure as to its import; and in mechanical cases, it should be identified in the descriptive portion of the specification by reference to the drawing, designating the part or parts therein to which the term applies. A term used in the claims may be given a special meaning in the description. No term may be given a meaning repugnant to the usual meaning of the term. See MPEP 608.01 (o).

As per claims 1-24, the terms "Certificate Authority" and "certificate" by definition, include a digital signature. See Schneier page 185 "Public-key Certificates", Menezes page 548 "certification authority".

The applicant has used both terms in conjunction with "unsigned certificate". This is opposite of the common use of "Certificate Authority" and "certificate". Applicant must distinguish his invention from a Certificate Authority and a certificate.

The previous action as stated below, stands on the merits, as no Certificate Authority may issue unsigned certificates.

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## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1, 2, 6, 7, 8, 13, 14, 18, 19, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Andrews US 6,324,645.

As per claims 1 and 13, Andrews discloses that a certificate authority issues a certificate to a user that binds the public key of the user to the users long term identification information, (Col 3 lines 26-30, 55-58). Andrews discloses that a hash of the certificate (jurisdiction hash) sent to a verifier is compared to a recorded hash on a database for authentication, (Col 9 lines 59-67 Col 10 lines 1-7). Andrews discloses that the subject demonstrates said subject has knowledge of a private key corresponding to the public key in the certificate, (Col 10 lines 34-37).

As per claims 2 and 14, Andrews discloses that the certificate has a date and time, (Validity) (Col 9 line 26, 34-36).

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(Col 6 line 28).

As per claims 6 and 18, Andrews discloses that the hash computed is a collision free hash, (Col 5 lines 30-34).

As per claims 7 and 19, Andrews discloses that the hash is a SHA hash (Col 5 line 34).

As per claims 8 and 20, Andrews discloses that the hash is an MD5 hash (Col 5 line 34).

#### Claim Rejections - 35 USC § 103

4. Claims 3, 4 and 15, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews US 6,324,645 in view of Maruyama US 6,393,563

As per claims 3 and 15, Andrews discloses that the certificate may not have a time and date,

As per claims 4 and 16, Andrews discloses a private key. Andrews does not disclose storing the private key on a smart card.

Maruyama disclose a private key may be stored on a smartcard, (Col 1 line 20, 53-56).

It would be obvious to modify the Andrews private key with Maruyama's smart card, because the smart card increases the security of key storage.

5. Claims 5 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews US 6,324,645 in view of Kausik US 6,263,446.

As per claims 5 and 17, Andrews does not disclose a software wallet.

Kausik discloses storing a private key in a software wallet, (Col 4 lines1-6).

It would be obvious to modify Andrews private key with Kausik's software wallet because the wallet increases the security of key storage.

6. Claims 9 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews US 6,324,645 in view of Gasser US 5,224,163.

As per claims 9 and 21, Andrews does not disclose that the certificate is revoked based on the validity of the long term information and public key.

Gasser discloses that if the key of the certificate is compromised, it is revoked, (Col 7 lines 5-9).

It would be obvious to one skilled in the art to modify Andrews certificate revocation with Gassers invalid key revocation, because a subject that used an invalid key would not be accepted.

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7. Claims 10, 11 and 22, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews US 6,324,645 in view of Micali US 5,793,868 in view of Boyle 6,212,636. As per claims 10 and 22, Andrews does not disclose a revocation system involving hashes. Micali discloses a certificate revocation system where the certificate authority takes a hash of the certificates to be revoked, (Col 3 lines 18-23).

It would be obvious to one skilled in the art to modify Andrews revocation system with Micali's hashes, because hash's take less memory to store, and are well known for authentication properties in the art.

Boyle discloses that upon being notified that a certificate is revoked, that any data related to the certificate is erased from memory, (Col 21 line 59- 67).

It would be obvious to modify the Andrews Micali combination above with Boyle's method of deletion, because a subject would not want to accidentally use a revoked certificate. As per claims 11 and 23, Andrews discloses that the certificate authority may mark the certificate as being invalid (CRL), (Col 6 lines 31-35).

8. Claims 12, and 24, are rejected under 35 U.S.C. 103(a) as being unpatentable over Andrews US 6,324,645 in view of Micali US 5,793,868 in view of Boyle 6,212,636 in view of Gasser US 5,224,163.

As per claims 12 and 24, Andrews's combination does not disclose deleting the certificate from the database once it has been revoked.

Gasser discloses a certificate authority (GNS) deletes the revoked certificate, (CoI 7 lines 5-10). It would be obvious to one skilled in the art to modify the Andrew's combination with Gasser's deletion method because the certificates are no longer useful.

#### Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher J Brown whose telephone number is 703-305-8023. The examiner can normally be reached on 8:30-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached on 703-308-4789. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher J. Brown

GREGORY MORSE SUPERVISORY PATENT FXAMINE

TECHNOLOGY CENTER 2100